



Smart Laboratory on Clean Rivers (SLCR)

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Recently, the [Green Strategic Partnership](#) between **India** and **Denmark** has led to the creation of the **Smart Laboratory on Clean Rivers (SLCR) in Varanasi**.

- SLCR is a collaborative initiative involving **India** (Department of Water Resources, River Development and Ganga Rejuvenation), [Denmark](#) and **Indian Institute of Technology - Banaras Hindu University (IIT-BHU)**.
- **Objectives of SLCR:** It aims to rejuvenate the **Varuna River** using sustainable methods.
- **Funding Mechanism:** The SLCR secretariat will get Rs 16.8 crore from the **Jal Shakti Ministry** and an extra **Rs 5 crore from Denmark** for sustainability and development.
- **Projects Under SLCR:**
 - **Decision Support System (DSS):** Provides real-time monitoring, data visualization, and scenario simulations.
 - **Emerging Pollutants Characterization:** Detects and quantifies contaminants with advanced analysis.
 - **Hydrogeological Model:** Determines optimal recharge sites and rates for the Varuna Basin.
- **Model Of SLCR:** It features a lab model at **IIT-BHU** and an **on-field living lab** at the Varuna river for real-world testing and scaling of solutions.
 - Varuna river is a **minor tributary** of the [Ganges River](#) in Uttar Pradesh, India.
 - It originates at **Phulpur in the Prayagraj** district and merges into the Ganges near Sarai Mohana in the Varanasi district.

Read More: [India Denmark Cooperation](#)

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